



# Model Curriculum

## Assistant Scaffolder - Conventional

**SECTOR: Construction**  
**SUB-SECTOR: Real Estate and Infrastructure Construction**  
**OCCUPATION: Scaffolding**  
**REF ID: CON/Q0313, Version 2.0**  
**NSQF LEVEL: 3**





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# Assistant Scaffolder- Conventional

## CURRICULUM / SYLLABUS

This program is aimed at training candidates for the job of a “Assistant Scaffolder- Conventional”, in the “Construction” Sector/Industry and aims at building the following key competencies amongst the learner

<b>Program Name</b>	<b>Assistant Scaffolder- Conventional</b>		
<b>Qualification Pack Name &amp; Reference ID</b>	CON/Q0313, Version 2.0		
<b>Version No.</b>	2.0	<b>Version Update Date</b>	24-09-2019
<b>Pre-requisites to Training</b>	NIL		
<b>Training Outcomes</b>	<b>After completing this programme, participants will be able to:</b> <ul style="list-style-type: none"><li>• Carry out erection and dismantling of conventional scaffold using bamboo and ballis</li><li>• Carry out erection and dismantling of scaffold using pipe and coupler</li><li>• Interact and communicate effectively with co-workers, superiors and sub-ordinates across different teams</li><li>• Follow safety norms as defined by organization, adopt healthy and safe work practices.</li></ul>		

This course encompasses 4 out of 4 National Occupational Standards (NOS) of “Assistant Scaffolder- Conventional” Qualification Pack issued by “Construction Skill Development Council of India”.

Sr. No.	Module	Key Learning Outcomes	Equipment Required
1	<p><b>Introduction to scaffolding occupation</b></p> <p><b>Theory Duration</b> (hh:mm) 08:00</p> <p><b>Practical Duration</b> (hh:mm) 00:00</p> <p><b>Corresponding NOS Code</b> Bridge Module</p>	<ul style="list-style-type: none"> <li>Describe the role and responsibilities of an assistant scaffolder conventional</li> <li>Apply the basic knowledge of units, measurement and arithmetic calculation relevant to scaffolding work</li> <li>Recall the basic terms used in the occupation of scaffolding</li> <li>Discuss future possible progression and career options for assistant scaffolder conventional</li> </ul>	
2	<p><b>Carry out erection and dismantling of conventional scaffold using bamboo and ballis</b></p> <p><b>Theory Duration</b> (hh:mm) 32:00</p> <p><b>Practical Duration</b> (hh:mm) 88:00</p> <p><b>Corresponding NOS Code</b> CON/N0353</p>	<ul style="list-style-type: none"> <li>List the various materials, tools and equipment used in conventional scaffolding along with their standard sizes</li> <li>Explain the applications various materials, tools and equipment used in conventional scaffolding</li> <li>Explain the process of stacking and storing materials used in conventional scaffolding work</li> <li>Identify measuring, marking and leveling tools</li> <li>Use the various tools and equipment used in conventional scaffolding</li> <li>Explain common defects in bamboos</li> <li>Identify the common defects in bamboo</li> <li>Explain the various visual checks required for confirming the working condition of ropes</li> <li>Explain importance of soaking jute ropes in water prior to use</li> <li>Explain the criteria for selection of rope based upon types of work</li> <li>List the different types of knots used in conventional scaffolding works</li> <li>Explain the use of different types of knots used in conventional scaffolding works</li> <li>Memorize the sequence and standard procedure for erection of scaffold using bamboos and ballis</li> <li>Describe importance of providing supports to scaffold</li> <li>Demonstrate preparation of base for conventional scaffolding work</li> <li>Describe the measures taken for protection of work and work area</li> </ul>	<ul style="list-style-type: none"> <li>Hammer</li> <li>Hand saw</li> <li>Hack saw frame with blade</li> <li>Rammer</li> <li>Hand roller</li> <li>Measuring tape</li> <li>Spirit level</li> <li>Plumb-bob</li> <li>Mason’s line</li> <li>Water level tube</li> <li>Bamboo/Ballie</li> <li>Nylon/Jute rope</li> <li>Nails</li> <li>Walkways</li> <li>Aluminium/ GI ladder</li> <li>Safety net</li> <li>Helmet</li> <li>Safety shoes</li> <li>Safety belt</li> <li>Cotton hand gloves</li> <li>Goggles</li> <li>Reflective jackets</li> <li>Safety message boards</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Demonstrate the tying of different types of knots used in conventional scaffolding works</li> <li>• Demonstrate the preparatory works for scaffold erection</li> <li>• Demonstrate the erection of bamboo balli type of conventional scaffold up to specified height</li> <li>• Demonstrate checks for alignment of scaffold as per instruction</li> <li>• Demonstrate the process of providing support in a conventional scaffolding works</li> <li>• Demonstrate the dismantling of bamboo balli type of conventional scaffold</li> </ul>	
3	<p><b>Carry out erection and dismantling of scaffold using pipe and coupler</b></p> <p><b>Theory Duration</b> (hh:mm) 40:00</p> <p><b>Practical Duration</b> (hh:mm) 110:00</p> <p><b>Corresponding NOS Code</b> CON/N0354</p>	<ul style="list-style-type: none"> <li>• List the various materials, tools and equipment used in pipe and coupler scaffolding along with their standard sizes</li> <li>• Explain the applications various materials, tools and equipment used in pipe and coupler scaffolding</li> <li>• Explain the process of stacking and storing materials used in pipe and coupler scaffolding work</li> <li>• Explain application of slings, shackles, and belts for lifting and shifting of scaffold materials</li> <li>• Use different measuring, marking and leveling tools</li> <li>• Explain common defects in pipes and couplers</li> <li>• Identify the common defects in pipes and couplers</li> <li>• Describe criteria for selection of pipes, swivel coupler, right angle coupler etc. based upon types of work</li> <li>• Define sequence and standard procedure for erection of scaffold using pipes and couplers</li> <li>• Describe importance of providing supports to scaffold</li> <li>• Demonstrate preparation of base for pipe and coupler scaffolding work</li> <li>• Describe the measures taken for protection of work and work area</li> <li>• Discuss standard procedure for erection and dismantle of pipe and coupler scaffold</li> <li>• Summarize knowledge about upkeep, repair and maintenance of tools</li> <li>• Demonstrate the preparatory works for scaffold erection</li> </ul>	<ul style="list-style-type: none"> <li>• Hammer</li> <li>• Ring spanner (set)</li> <li>• Open end spanner</li> <li>• Double end spanner</li> <li>• Wrench</li> <li>• Pulley</li> <li>• Rope</li> <li>• Nuts and bolts</li> <li>• Hack saw frame with blade</li> <li>• Hand roller</li> <li>• Rammer</li> <li>• Measuring tape</li> <li>• Spirit level</li> <li>• Plumb-bob</li> <li>• Mason's line</li> <li>• Water level tube</li> <li>• Pipes of different size a and diameter</li> <li>• Swivel coupler</li> <li>• Fixed clamp</li> <li>• Steel walkways</li> <li>• Aluminium/ GI ladder</li> <li>• Safety net</li> <li>• Helmet</li> <li>• Safety shoes</li> <li>• Safety belt</li> <li>• Cotton hand gloves</li> <li>• Goggles</li> <li>• Reflective jackets</li> <li>• Safety message</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<ul style="list-style-type: none"> <li>• Demonstrate the erection of pipe and coupler scaffold up to specified height</li> <li>• Demonstrate checks for alignment of scaffold as per instruction</li> <li>• Demonstrate the process of providing support in a pipe and coupler scaffolding works</li> <li>• Demonstrate the dismantling of pipe and coupler scaffold</li> </ul>	boards <ul style="list-style-type: none"> <li>• Barricading material</li> </ul>
4	<p><b>Explain benefits of working effectively in a team</b></p> <p><b>Theory Duration</b> (hh:mm) 08:00</p> <p><b>Practical Duration</b> (hh:mm) 16:00</p> <p><b>Corresponding NOS Code</b> CON/N8001</p>	<ul style="list-style-type: none"> <li>• Demonstrate effective communication skills while interacting with co-workers, trade seniors and others during the assigned task.</li> <li>• Interpret work sketches, formats, permits, protocols, checklists and other work-related requirements which are to be conveyed to other team members</li> <li>• Demonstrate effective reporting to seniors while carrying out the work in a team as per applicable organisational norms</li> <li>• Explain effects and benefits of timely completion of conventional scaffolding works</li> <li>• Explain importance of team work and its effects relevant to conventional scaffolding works with examples</li> <li>• Demonstrate team work skills during assigned task.</li> </ul>	
5	<p><b>Work according to personal health, safety and environment protocol at construction site</b></p> <p><b>Theory Duration</b> (hh:mm) 16:00</p> <p><b>Practical Duration</b> (hh:mm) 32:00</p> <p><b>Corresponding NOS Code</b> CON/N9001</p>	<ul style="list-style-type: none"> <li>• Explain the types of hazards at the construction sites</li> <li>• Identify the hazards specific to the conventional scaffolding works</li> <li>• Recall the safety control measures and actions to be taken under emergency situations</li> <li>• Explain the classes of fire and types of fire extinguishers</li> <li>• Demonstrate the operation of fire extinguisher.</li> <li>• Demonstrate different methods involved in providing first aid to the affected person.</li> <li>• Explain the importance of worker participation in safety/mock drills</li> <li>• Demonstrate the use of all Personal Protective Equipment (PPE) like helmet, safety shoe, safety belt, safe jackets</li> </ul>	<ul style="list-style-type: none"> <li>• Safety Helmet</li> <li>• Safety goggles</li> <li>• Safety shoes</li> <li>• Safety belt</li> <li>• Cotton gloves</li> <li>• Ear plugs</li> <li>• Reflective jackets</li> <li>• Dust mask</li> </ul>

Sr. No.	Module	Key Learning Outcomes	Equipment Required
		<p>and other safety equipment relevant to conventional scaffolding works requirement</p> <ul style="list-style-type: none"> <li>• Explain the reporting procedures adopted during emergency situations</li> <li>• Describe the standard procedure for handling, storing and stacking of material, tools, equipment and accessories</li> <li>• Explain different types of wastes produced at a construction site including their disposal method</li> <li>• Explain the purpose and importance of vertigo test at construction site</li> <li>• Demonstrate vertigo test</li> <li>• List out basic medical tests required for working at construction site</li> <li>• Explain the types of ergonomic principles adopted while carrying out specific task at the construction</li> <li>• Explain the benefits of basic ergonomic principles used at construction sites.</li> <li>• Explain the importance of housekeeping works</li> <li>• Demonstrate housekeeping practice followed after conventional scaffold works</li> </ul>	
	<p><b>Total Duration</b></p> <p><b>Theory Duration</b> <b>104:00</b></p> <p><b>Practical Duration</b> <b>246:00</b></p>	<p><b>Unique Equipment Required:</b> Hammer, Ring spanner (set), Open end spanner, Double end spanner, Wrench, Pulley, Rope, Nuts and bolts, Hand saw, Hack saw frame with blade, Measuring tape, Spirit level, Water level tube, Plumb-bob, Mason’s line ,Lifting appliance (Sling, Shackle, Belts), Safety Helmet, Safety goggles, Safety shoes, Safety belt, Cotton gloves, Ear plugs , Reflective jackets, Dust mask, Fire Prevention kit</p> <p><b>Classroom aids (for 30 students):</b> Classroom of 30 students capacity, Black/White board, Projector/LED Monitor, Computer, Trade specific charts and other teaching aids</p>	

Grand Total Course Duration: **350 Hours, 0 Minutes**

(This syllabus/ curriculum has been approved by Construction Skill Development Council of India)



## Trainer Prerequisites for Job role: “Assistant Scaffolder- Conventional” mapped to Qualification Pack: “CON/Q0313, Version 2.0”

Sr. No.	Area	Details
1	<b>Description</b>	To deliver accredited training service, mapping to the curriculum detailed above, in accordance with the Qualification Pack “CON/Q0313 Version 2.0”.
2	<b>Personal Attributes</b>	Aptitude for conducting training, and pre/ post work to ensure competent, employable candidates at the end of the training. Strong communication skills, interpersonal skills, ability to work as part of a team; a passion for quality and for developing others; well-organised and focused, eager to learn and keep oneself updated with the latest in the mentioned field
3	<b>Minimum Educational Qualifications</b>	ITI/12 <sup>th</sup> standard pass
4a	<b>Domain Certification</b>	Certified for the job role “Assistant Scaffolder- Conventional” mapped to QP:“CON/Q0313 Version 2.0” Minimum accepted score is 80%
4b	<b>Platform Certification</b>	Certified for the job role “Trainer” mapped to QP:“MEP/Q2601” Minimum accepted score is 80%
5	<b>Experience</b>	i. Technical Degree holder with minimum three years of Field experience and preferably two years of teaching experience or, ii. In case of a Diploma Holder five years of field experience and preferably two years of teaching experience or, iii. In case of ITI/12 <sup>th</sup> pass minimum eight years of field experience and preferably two years of teaching Experience.

**Note: For the Assessment Criteria please refer to the QP PDF**